

Appln. No. 10/624,131
Amdt. dated April 5, 2005
Reply to Office action dated January 28, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended): A lamp, comprising:

a housing having a pair of openings on opposite sides; and

a plurality of ~~light-emitting diodes (LEDs)~~ LEDs arranged to form two different LED arrays, wherein each of the LED arrays corresponds to a different one of the openings of the housing, and wherein at least a portion of each of the LED arrays is exposed through the corresponding openings[.];

a pair of printed circuit boards, the LEDs of each of the LED arrays being mounted to a different one of the pair of printed circuit boards; and

a base connected to a side surface of the housing and adapted for connecting to a lamp holder or socket.

Claims 2-4 (canceled)

Appln. No. 10/624,131
Amdt. dated April 5, 2005
Reply to Office action dated January 28, 2005

5. (currently amended) The lamp as recited in claim 4 1 wherein the base is a bayonet base adapted for connecting to a bayonet-type lamp holder or socket.

Claims 6-7 (canceled)

8. (currently amended) The lamp as recited in claim 7 22 wherein the at least one LED is generally orthogonal to at least one of the LED arrays.

Claims 9-13 (canceled)

14. (currently amended) The lamp as recited in claim ~~13~~ 23 wherein the electrical circuit comprises a resistor coupled to a diode array.

15. (currently amended) The lamp as recited in claim 14, wherein the diode array comprises a bridge rectifier device mounted to a printed circuit board.

16. (currently amended) A lamp, comprising:

a hollow, cylindrical housing having a first opening and a second opening on opposite sides;

Appln. No. 10/624,131
Amdt. dated April 5, 2005
Reply to Office action dated January 28, 2005

a first printed circuit board (~~PCB~~) positioned adjacent to the first opening and having a first plurality of ~~light-emitting diodes (LEDs)~~ LEDs mounted thereon, wherein at least a portion of the first plurality of LEDs is exposed through the first opening; ~~and~~

a second ~~PCB~~ printed circuit board positioned adjacent to the second opening and having a second plurality of LEDs mounted thereon, wherein at least a portion of the second plurality of LEDs is exposed through the second opening[.]; and

a base connected to a side surface of the housing and adapted for connecting a lamp holder or socket.

Claim 17 -18 (canceled)

19. (currently amended) The lamp as recited in claim ~~18~~, 24 wherein the lamp is configured to emit light from the first and second openings of the housing and from the holes in the side surface of the housing opposite the base.

20. (canceled)

21. (new) A lamp comprising:

a housing having a pair of openings on opposite sides; a base being connected to a side surface of said housing and adapted for connecting to a lamp holder or socket, said

base comprising a shell and a pair of contacts that form electrical contacts between the lamp and the lamp holder or socket; and

a plurality of LEDs arranged to form two different LED arrays, wherein each of the LED arrays corresponds to a different one of the openings of the housing, and wherein at least a portion of each of the LED arrays is exposed through the corresponding opening.

22. (new) A lamp, comprising:

a housing having a pair of openings on opposite sides; said housing having a base connected to a side surface of the housing and adapted for connecting to a lamp holder or socket, said housing further comprising a plurality of holes in the side surface opposite the base, and wherein at least one LED of each of the LED arrays is exposed through one of the holes; and

a plurality of LEDs arranged to form two different LED arrays, wherein each of the LED arrays corresponds to a different one of the openings of the housing, and wherein at least a portion of each of the LED arrays is exposed through the corresponding opening.

23. (new) A lamp comprising:

a housing having a pair of openings on opposite sides;

a plurality of LEDs arranged to form two different LED arrays, wherein each of the LED arrays corresponds to a different one of the openings of the housing, and wherein at least a portion of each of the LED arrays is exposed through the corresponding opening; and

an electrical circuit coupled to the LEDs of one of the LED arrays and configured to properly illuminate the LEDs independent of the polarity of an input direct current voltage.

24. (new) A lamp, comprising:

a hollow, cylindrical housing having a first opening and a second opening on opposite sides, a base being connected to a side surface of the housing and adapted for connecting to a lamp holder or socket, the housing further comprising a plurality of holes in the side surface opposite the base, and wherein at least one LED of the first and second pluralities of LEDs is exposed through one of the holes.;

a first printed circuit board positioned adjacent to the first opening and having a first plurality of LEDs mounted thereon, wherein at least a portion of the first plurality of LEDs is exposed through the first opening; and

a second printed circuit board positioned adjacent to the second opening and having a second plurality of LEDs mounted thereon, wherein at least a portion of the plurality of LEDs is exposed through the second opening.

Appln. No. 10/624,131
Amdt. dated April 5, 2005
Reply to Office action dated January 28, 2005

25. (new) A lamp, comprising:

a hollow, cylindrical housing having a first opening and a second opening on opposite sides;

a first printed circuit board positioned adjacent to the first opening and having a first plurality of LEDs mounted thereon, wherein at least a portion of the first plurality of LEDs is exposed through the first opening;

a second printed circuit board positioned adjacent to the second opening and having a second plurality of LEDs mounted thereon, wherein at least a portion of the plurality of LEDs is exposed through the second opening; and

an electrical circuit coupled to the first plurality of LEDs and configured to properly illuminate the first plurality of LEDs independent of the polarity of an input direct current voltage.